ASBESTOS

NOVEMBER, NINETEEN FORTY

ASBESTOS TEXTILES

ASBESTOS TEXTILES AND TEXTILE PRODUCTS IS THE TITLE OF A CONCISELY WORDED BOOK ON ASBESTOS AND ITS TECHNOLOGY PERTAINING TO THE FORMS, GRADES, SIZES AND FUNCTIONS OF ASBESTOS TEXTILE PRODUCTS. IT IS DISTRIBUTED FREE FOR THE ASKING TO ALL THOSE WHO ARE IN POSITION TO SPECIFY, USE OR BUY ANY ASBESTOS TEXTILE MATERIAL.

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"ASBESTOS"

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THE ELECTION IS OVER.

(We believe that every able business man in the United States will endorse the sentiments expressed in the following editorial, written by Philip D. Reed, Chairman of the Board, General Electric Company).

The election is over; the results are known. Whether our preference was for Mr. Roosevelt or Mr. Willkie, we Americans know that the future of our country depends not on politics but on economics and national unity. The next four years bid fair to be the most critical and difficult ones within memory of living man. Profound wisdom, steadiness and vision will be needed to guide America thru this war-torn world, preserving at once our integrity and ideals as a great democracy, and exerting at the proper time and place the full weight of our power and leadership toward a realistic, economic and therefore lasting world peace.

And in the meantime the creation of an impregnable defense, the training of millions of men, and the building of millions in war machines is itself a Herculean task—especially so when we recognize that the production of everyday useful goods must go on and up if we are to preserve our standard of living and avoid a wartime boom.

Add to this the task of maintaining a united, confident and understanding people awake to the gravity of our problems, ready to serve and, if need be, to sacrifice in their country's interest, and we get some notion of the nature and enormity of the burden that the election placed upon the shoulders of our President. He will need the help of every loyal American. Let us all stand by.

—:—

The inscription used on the back cover of this issue appears on the front of the Governor's House at Delhi, India.

It was sent us by Ernest Muehleck, President of Keasbey & Mattison Company, Ambler, Pa., and we are very glad, at his suggestion, to publish these impressive lines.

RESEARCH ACCELERATES INDUSTRIAL PROGRESS

By G. D. Crabbs

George Dent Crabbs

George Dent Crabbs, Chairman of the Board and Director, The Philip Carey Mfg. Company, Cincinnati, Ohio, was employed, at the age of 18, in a clerical position by Philip Carey, founder of The Philip Carey Mfg. Company, and became President of the Company at the age of 23, upon the death of Mr. Carey. He served in all Liberty Loan campaigns during the World War, was Organization Chairman of the Cincinnati Community Chest, and its first campaign chairman. He was President of the Cincinnati Railroad Terminal Development Company and as such carried on successful negotiations with the seven railroads entering the Cincinnati district which resulted in the building of Cincinnati's freight and passenger terminal. The University of Cincinnati conferred on him Honorary degree of Doctor of Science in June 1928, and he received the Honorary degree of Doctor of Laws from Xavier University that same year. He is an Honorary member of the Cincinnati Chamber of Commerce, the Cuvier Press Club and The Cincinnati Club; and a member of the Queen City Club and Commercial Club of Cincinnati. He also holds the positions of Vice President and Director of The Cincinnati Union Terminal Company; Chairman of the Board of Governors, Asphalt Roofing Industry Bureau; and Director of The Proctor & Gamble Co., The Cincinnati Street Railway Co., The Cincinnati, New Orleans & Texas Pacific Railway Co., Cincinnati Gas & Electric Company, and Wheeling Steel Corporation.

—:—

"The march of science, discovery, and invention has been so speeded up that the advance of any year may forecast the early supersession and abandonment of the old familiar ways of doing things and the old equipment employed in doing them."—The Saturday Evening Post.

The business executive of today must be alert to the effects on his business of this speeding up of industrial progress by research. If he is not, he is virtually certain to find his business fighting a defensive, rearguard action against competition within the next few years. The danger of neglecting research seems especially great just now, since the currently accelerating tempo of business and industrial production under the stimulus of the national defense program may mislead some business men

into believing that there will be plenty of profitable business for a long time to come, irrespective of whether they devote any attention to research and development. This viewpoint assumes a "freezing" of progress in industry during the period immediately ahead; against it is the cold, hard fact that in this country there are now nearly two thousand industrial research laboratories, large and small, employing about forty thousand technical workers, and spending an estimated $200,000,000 annually on research directed to the development of improved products and manufacturing processes. Out of these research laboratories will come countless new and improved products. Certainly, also, some entirely new industries will be born there, making still more new things to compete for the consumer's dollar.

Perhaps the most important part of a manufacturing executive's job is planning the future of his company's business. The function of the Research Department is to provide him with means for planning that future in respect to the products the company will have to offer and the methods of making them. "Research tries to advise a business far enough in advance so that it will be prepared," says Charles F. Kettering. Someone else has aptly said that the cost of operating a research laboratory may be regarded as the premium on an insurance policy against loss of markets due to present products being obsoleted by the progress of the industry.

Research consists of originating, developing and testing ideas, but these ideas relate to very solid realities—raw materials, machinery and products—and unless these ideas can finally be translated into practicable manufacturing methods and marketable products the work done accomplishes no useful purpose. Hence, research must chiefly concern itself with digging down to the fundamental facts and building its superstructure upon a solid foundation of such facts. Getting the essential facts is a tedious, time-consuming business, requiring patient and persistent effort, but worthwhile research results can be obtained in no other way.

Included in the functions of an industrial manu-

Carey HEAT INSULATIONS

Careycel—For temperatures up to 300° F.

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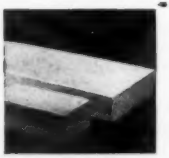


Hi-Temp Blocks—For Furnaces, Ovens, Kilns, etc.

In addition to the insulations shown, Carey makes other Asbestos Specialties — as Plastic and dry Refractory Cements, Asbestos Paper, Asbestos Millboard, Asbestos Packings, Asbestos Cements, Flat and Corrugated Sheathing, Careystone Asbestos-Cement Shingles and Siding, Asbestos Fibre.

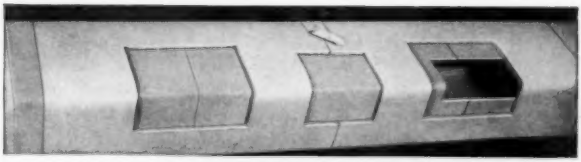
Wholesalers and Applicators of Insulation Materials—write for details and prices.

Combination Hi-Temp—85% Magnesia.

Hair Felt Insulation For sub-zero.

CAREYDUCT—

the all-asbestos duct for conveying conditioned air. Combines duct and insulation. Fireproof, sound-deadening, permanent, economical, easily erected.



Cut-out view of CAREYDUCT—assembled sections showing staggered joint construction and taped outer jacket. Smooth appearance.

THE PHILIP CAREY COMPANY · Lockland, Cincinnati, Ohio.

Dependable Products Since 1873

BRANCHES IN PRINCIPAL CITIES

facturing research department, which aid the executive in his product planning, are the following:

Development of new products
Improvement of established products
Improvements in processes and equipment
Utilization of by-products and waste materials
Reduction in manufacturing costs
Investigations of raw materials
Development of improved methods of test for the products.

The research department may also perform some of the following listed subsidiary or "service" functions:

Providing technical data for sales literature and advertising
Adaptation of products to customers' requirements
Comparisons of products with those made by competitors
Cooperation with standardizing agencies
Assistance in preparation and prosecution of patent applications
Maintenance of liaison between manufacturing and sales departments

Industrial research has introduced into business a new form of competition which is becoming daily more intense—a race to be in position to offer the consumer more acceptable products, better in design, finish, performance, durability, convenience and all the other qualities which sum up in the buyer's mind into the one word *value*. We must recognize that the products we are making and selling today, good as they are, will not all of them be equally acceptable to our customers five years hence, and in some cases they may even be obsolete *next* year. Our competitors educate our customers to expect more and we, in turn, seek to persuade their customers to demand the improvements which we have introduced into our products and, therefore, to buy from us, instead. This kind of competition cannot be successfully met without research, but the manufacturer who understands research and is organized to use it effectively himself need not fear it.

Clearly, the principal beneficiary of industrial research is the *consumer* who buys the products of industry.

AFD

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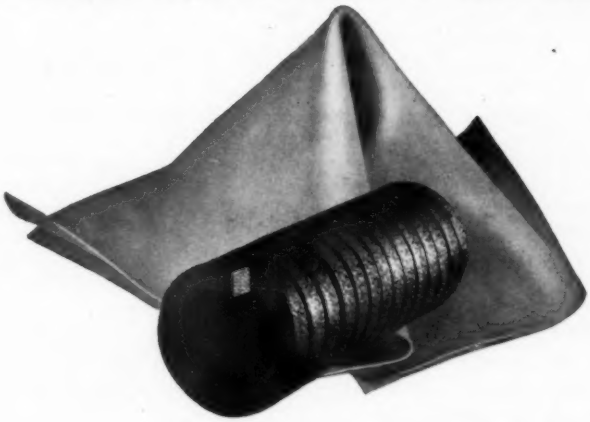
Thus, when research has completed its task, he can buy a better product at the same price, an equally good product at a lower price, or an entirely new product that previously he could not buy at all. This emphasizes the necessity of giving due consideration to the consumer's needs and preferences while doing research, since unless his approval of the new product is secured, all the effort and expense put into its development will have been wasted. Some manufacturers wisely avoid this uncertainty by conducting surveys in advance of new developments to ascertain the preference of the buyers of their products.

The Philip Carey Company is no recent convert to the belief in the value of industrial research. In the early years of the company's growth much pioneering development work was done on the products by the plant chemists and production supervisors, but over twenty years ago formal organization of research was commenced thru support of a multiple Fellowship on Heat Insulation at Mellon Institute of Industrial Research, Pittsburgh, Pa. This Fellowship, in continuous operation since that time, has conducted exhaustive investigations of heat flow thru a wide variety of insulating materials and has published many authoritative technical papers on thermal insulation. In 1931, the company's other research and development activities were centralized in a new research laboratory adjoining the main office and plant at Lockland; the research staff and the scope of the work done have steadily been expanded thruout the trying depression period of the past nine years.

As to the results obtained from these research efforts, it may be said, first, that there is hardly any important product in the Carey line which has not benefited to some degree in quality or cost, or both. Many new and useful products have been developed from our basic raw materials—asbestos, asphalt, magnesia and Portland cement—and the addition of these new products has extended the potential markets and strengthened the competitive position of the company. Many notable improvements have been made in asbestos-containing products,

PACKINGS

SUPERIOR QUALITY FOR EVERY NEED



Keasbey & Mattison Packings are engineered for every type of service—steam, oil, water, acid, and gas. One of the outstanding products in the line is K & M 236 Packing for hot oil superheat, which presents the utmost resistance to the solvent action of hot petroleum fractions.

There are a few territories open for desirable Distributors. Why not get in touch with us today?

K&M best in asbestos

KEASBEY & MATTISON COMPANY

AMBLER • PENNSYLVANIA

including asbestos paper and millboard, asbestos-laminated pipe coverings, asbestos-cement shingles, sidings and wallboard, insulating cements, 85% magnesia insulations, asphalt industrial flooring tile, asbestos pipe line wrapping felt, asbestos gasket sheet, asbestos-asphalt roofings, and asphalt fiber coatings, and flashing cements.

Among new products which have resulted from Carey research, particular mention may be made of Careyduct, the prefabricated all-asbestos insulating air duct. Another is Carey Firefoil panel. Everyone in the industry knows that corrugated asbestos paper insulation boards, altho possessing good insulation value and moderate heat resistance, are soft, fragile and have little or no water resistance; research developed Firefoil, retaining its high insulation value, but made it also hard, rigid, strong, fire-resistant, and capable of enduring prolonged immersion in water without excessive loss of strength. Careycel, the indented asbestos paper, laminated into pipe coverings and insulation boards, shows 30 percent greater insulation efficiency than ordinary corrugated asbestos aircell insulations, with minimal heat shrinkage.

From the results of past research one definite conclusion stands out, namely, that the potentialities of research on asbestos have by no means been exhausted. It seems certain that future research will find new uses for this remarkable mineral in building materials, heat insulations, road materials, automotive materials, plastics, and in other fields as yet undiscovered.

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Works: MILLINGTON, N. J.

A. S. T. M. TESTS ASBESTOS CLOTH

Specification requirements and tests for asbestos cloth are included for the first time in the 1940-41 issue of A. S. T. M. Standards on Textile Materials. These are at present in the tentative stage.

This edition, sponsored by Committee D-13 on Textile Materials, contains 65 specifications of quality, tolerances, test procedures and definitions developed by the American Society for Testing Materials on various textiles.

Besides the Cloth tentative standard, which is numbered D 577-40T, the book contains specifications on other Asbestos materials as follows:

D 375—37	Asbestos Roofing for Electrical Purposes
D 299—37	Asbestos Yarns
D 299—40T	Asbestos Yarns (Tentative)
D 315—37	Asbestos Tape for Electrical Purposes

Four new (tentative) standards for glass textiles are also included in this book, covering

D 578—40T	Glass Yarn
D 579—40T	Glass Fabrics, Woven
D 581—40T	Glass Tubular Sleeving and Braids, Woven
D 580—40T	Glass Tapes, Woven

The book may be obtained from A. S. T. M. headquarters, 260 S. Broad St., Philadelphia, at $2.00 per copy, in heavy paper cover, or separate copies of any of the A. S. T. M. Standards and Tentative Standards contained in this 380-page book are available at 25c a copy (order by number and name).

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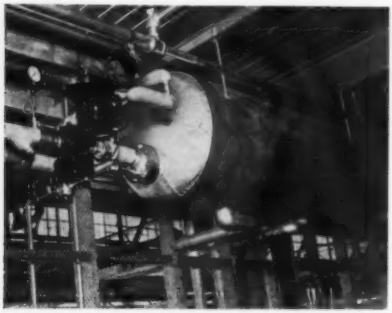
CURTISS-WRIGHT AIRPLANE PLANT

Uses 16 miles of K & M Insulation

Ten or twelve years ago Curtiss-Wright Aeroplane Division started its plant at Kenmore, Buffalo, N. Y., and thru the years has added to the original plant from time to time. Insulation has been consistently used on their pipe lines, boilers, etc., in each and every building erected,



Hot water tank for circulating system. Situated in final assembly building.

until now by actual measurement 16 miles—just about the distance Ambler is from Philadelphia—of insulation has been used.

And every foot of this insulation was made by Keasbey & Mattison Company and every foot of it installed by E. J. Eddy, Inc., K&M Distributors at 17 Terrace, Buffalo, N. Y.

Featherweight 85% Magnesia effectively insulates the steam lines—37,309 feet of it; 47,800 lineal feet of Duplex sectional covering is used on the plumbing lines for hot and cold water and on the circulating lines; 5000 square feet of Magnesia Blocks protects the breechings, storage tanks and boiler drums from heat loss.

"We have always had our steam lines properly insulated", says E. P. Reixinger, Curtiss-Wright plant engi-

neer, "and know that it conserves heat, altho we do not have record of actual dollars and cents saved."

The savings effected help lower the cost of producing modern aircraft by guarding against heat loss thruout this huge plant.

—:—

WE AMERICANS.

You have read the editorial by Philip D. Reed, Chairman of the Board, General Electric Company, on page 2 of this issue.

Very similar in content is a letter addressed by I. J. Harvey, Jr., President of The Flintkote Company to all its employees, urging their support of the historic American tradition that the will of the majority prevails with the minority giving the majority whole-hearted support in the attainment of every truly national objective.

Up until midnight of Election Day, we, the people, may have been Republicans, or Democrats, or New Dealers, or whatnot; today let us remember that we are first, last and all the time — *Americans*, and keep true to American traditions and ideals.

—:—

BUSINESS "LUXURY"

One of our readers calls insulation a "business luxury" in small plants. His experience over a number of years convinces him that when business is slow and business men are forced to watch costs carefully, they eliminate all the frills and insulation business drops. As soon as business starts to get better or it looks as tho better business is imminent, they begin to examine their plants to see where improvements can be made, and then they think of insulation, paint, and other repairs of that sort.

At present, this man tells us, people are repair minded and insulation, especially in small plants, is increasing. In fact his own business which has to do with the distribution of insulation and other allied commodities, is increasing enormously.

THEY SAY!

The American Optical Company of Southbridge, Mass., was recently awarded a $10,115 contract for asbestos mittens.

—:—

Approximately two and one-half million persons visited the Johns-Manville Exhibit Building at the New York World's Fair during 1939 and 1940. It is estimated that at least 70,000 of these are active prospects for the purchase of J-M products; 35,000 of them paid 10c for copy of the J-M "Home Idea Book". Nearly 1,000 special programs were broadcast during the 1940 season from the Exhibit Building.

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A new material for cylinder-head and other gaskets has been developed in Germany to *take the place of asbestos-base* gaskets, because asbestos is not readily obtainable in Germany at present. The material is made up of three sheets or layers of the synthetic rubber Buna and two layers of steel-wire netting, the wires of the two layers being placed at angles of 45 degrees with each other. Wire netting and rubber sheets are vulcanized together. The gaskets are said to be resistant to hot water and hot oil up to 350 deg. F., to glycol, gasoline and leaded gasoline.

—:—

A J-M Triple Insulated House in Lexington, Ky., made headlines recently when the Central Kentucky Natural Gas Co. advertised that the seven room house was heated for the normal 8 heating months for $56.78. The house is insulated thruout with Ful-Thik Rock Wool Batts, has Asbestos-cement Shingles on the roof, Asbestos Flexboard in the kitchen and Wainscoting on the bathroom walls.

—:—

In order to roof a lighthouse on Lake Michigan with J-M Asbestos Shingles, a telescope, sextant, steeplejack and navigator were required.

—:—

Make friends with your creditors, but never make creditors of your friends.

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CONTRACTORS AND DISTRIBUTORS PAGE

Training of Asbestos Workers

The question of vocational training in the Asbestos Industry has been brought up by an outside agency, making a general survey of vocational training in various industries and trades, and seems worthy of discussion in "ASBESTOS", especially by those interested in the application of insulation to pipes and boilers.

There is, so far as we know, no school of vocational training for asbestos workers (meaning pipe coverers). The work of training apprentices (or improvers as they are styled in the Industry) to the end that they are advanced to the class of mechanics, has been left almost entirely to the International Association of Heat & Frost Insulators, with the result that there is now a shortage of asbestos mechanics in most of the larger cities.

One of the Insulation Contractors whom we contacted tells us that he feels the Insulation Contractors (the employers in other words) should take a greater interest in the problem, instead of leaving it entirely to the Association and the Local Union.

Will each and every Insulation Contractor who reads this give us his ideas and opinions, also telling us what, if anything, is being done in his own city to increase the number of mechanics in the Pipe Coverers Trade.

A discussion of the problem, with opinions from all insulation contractors, and insulation contractors associations, from coast to coast, should be helpful.

Building

The September total of contracts awarded in the 37 states east of the Rocky Mountains was the highest recorded for any September since 1929, according to F. W. Dodge Corporation. The dollar volume, amounting to $347,651,000, represented a 7 per cent increase over September 1939. Since publicly-financed construction showed a fractional decline as compared with the corresponding month of last year, this increase was the result

of an upswing in private construction which rose from $179,011,000 to $203,655,000.

The year 1940 has been the largest construction year since 1931, and the largest residential building year since 1929. Dollar volume of construction contracts awarded in the 37 states east of the Rocky Mountains, during the first 9 months of this year, increased 5½ per cent over the corresponding period of 1939, according to F. W. Dodge Corporation. The comparative figures were $2,784,352,000 for the first 9 months of this year and $2,634,802,000 for the first 9 months of 1939.

The increase came largely in the third quarter of the year, stimulated by the national defense program, which has imparted an acceleration to construction activity likely to continue through the final quarter of 1940 and well into the first half of next year. First quarter contracts this year ran 13 per cent behind the first quarter of 1939; second quarter contracts ran 3 per cent ahead of last year's second quarter; this year's third quarter ran 24 per cent ahead of the third quarter of 1939.

Construction for the defense program is now filling the gap left by the tapering off of our earlier public works programs. Defense construction includes building and engineering structures of nearly all the important classifications, such as industrial, residential, hospital, educational, and administrative buildings, as well as various kinds of engineering work. Defense construction has thus far little more than made a start; continued gains in the fourth quarter are likely to bring the year's construction total to a figure 7 to 10 per cent greater than last year's final figure. In addition to continued defense construction projects in 1941, increased industrial activity and employment are likely to stimulate increased demand for private building next year, unless building costs should rise too rapidly.

AUTOMOBILE PRODUCTION

In September of this year 284,583 automotive vehicles were produced; (269,108 in the United States and 15,475 in Canada).

This compares with 192,679 in September 1939 (188,757 in the United States and 3,922 in Canada); and with 89,866 in August 1940 (75,873 in the United States and 13,993 in Canada).

The total automotive production for the nine months ending September 30, 1940 was 3,160,060 (3,005,212 in the United States and 154,848 in Canada); for the same period in 1939 a total of 2,570,370 motor vehicles were produced (2,459,973 in the United States and 110,397 in Canada).

These figures are taken from the monthly report issued by the Bureau of the Census, Department of Commerce.

MARKET CONDITIONS

GENERAL BUSINESS

Now that the election is over and with it at least the uncertainty as to its outcome, business can settle down to some extent and make plans accordingly.

The Defense Program, combined with the Selective Service Draft, making necessary hundreds of articles needed by the various camps, to say nothing of the camp buildings, makes certain increased business in a vast number of commodities for the next two or three years at least, regardless of what turn the war may take.

Opposite this we must place the elimination of European markets for many commodities, making it necessary for manufacturers of those things to replace the lost markets with new ones. Adjustment to these conditions is difficult for many.

ASBESTOS - RAW MATERIAL

One of our readers sums up the situation in the raw material market as follows:

Importations of Amosite into the United States for the past six months have been unusually large. Restrictions for the exportation of certain grades of asbestos from Canada to Japan are now in force, and may become even stricter if the political situation becomes more strained.

The Canadian Mines will probably curtail their output this winter. No change in prices.

ASBESTOS—MANUFACTURED GOODS

Textiles. Asbestos Textile volume is on the increase. Demands are greater than they have been for some months past. Prices are firm with a tendency for higher prices in certain Asbestos Textile specialties.

Brake Lining. Sales for domestic consumption directly reflected the unusually high volume of business transacted during September and when compared with the same month in previous years, increased over every other September since 1929. Export sales, altho decreasing from the previous month, were higher than those for last Septem-

ASBESTOS INSULATION
The Ruberoid Co., manufacturers of a complete line of high, medium and low pressure pipe coverings, welcomes the opportunity to cope with your problem of controlling Btu's.
The RUBEROID Co.
Executive Offices
500 Fifth Ave., New York

ber and the total for the year so far exceeds that for the same period in 1939.

Paper and Millboard. The demand in Asbestos Paper is seasonable with prices firm.

Millboard also shows a normal demand, with tendency to higher prices.

Because of the Defense program, ship work, etc., these markets are looking forward to increased business, in fact it is already showing in some sections.

Insulation. High Pressure. Shipments are showing an increase as a result of the expansion of defense industries and government construction now under way. Pending orders calling for future deliveries on this type of work indicate that volume should equal or substantially better present figures over at least the immediate future. Prices are firm.

Insulation. Low Pressure. The Defense Program is also influencing this market and undoubtedly there will be a marked increase in demand within the next few months. Prices show little change.

Asbestos-Cement Products. Volume is running well ahead of last year in every one of the several asbestos-cement products, due to the important part that these products are playing in national defense construction work. Thousands of squares of asbestos-cement siding are being used at the various defense bases, as well as hundreds of thousands of square feet of corrugated and flat sheets, wallboards and tile.

While this business has already increased the volume of shipments substantially over last year it has also created a substantial backlog of orders for delivery during the next few months as some of the larger government projects reach the stage of construction where they are ready for exterior covering. Thus the prospects are that the asbestos-cement industry will enjoy an unusually large volume even during the winter months, and manufacturers and trade are finding it necessary to plan well ahead for delivery on some projects.

The above comments have been made by men in close touch with the various markets; ideas and opinions are welcomed from all our readers.

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NEWS OF THE INDUSTRY

BIRTHDAYS

F. R. Anderson, Vice President, Sall Mountain Co., Chicago, Ill., November 24.

Alvin C. McCord, President, McCord Mfg. Co., Wyandotte, Mich., November 24.

John J. Krez, President, Paul J. Krez Co., Chicago, Ill., November 26.

S. J. Gillis, Waterfront Manager, Plant Rubber & Asbestos Works, San Francisco, Calif., November 26.

Alfred E. Hermes, Secretary-Treasurer, Acme Asbestos Covg. & Flooring Co., Chicago, Ill., November 27.

E. T. Connell, President, Connell Asbestos Co., Brooklyn, N. Y., November 29.

George W. Gerding, Asbestos Fibre Spinning Co., North Wales, Pa., November 29.

S. P. Moffit, Vice President and Director, The Ruberoid Co., New York City, N. Y., November 29.

R. E. Kramig, Senior Partner, R. E. Kramig & Co., Cincinnati, O., November 29.

G. C. Estes, General Sales Mgr., The Lehon Co., Chicago, Ill., December 2.

K. H. Behre, Sales Manager, Vermont Asbestos Mines, New York City, N. Y., December 5.

Victor Mauck. President, Nicolet Asbestos Mines, Norristown, Pa., December 6.

Kenneth MacLellan, Managing Director, George MacLellan & Co., Ltd., Glasgow, Scotland, December 8.

Joseph Poulin, President and General Manager, Asbestonos Corporation, Ltd., St. Lambert, Montreal, P. Q., December 15.

Congratulations and best wishes are extended to all these gentlemen on the occasion of their birthdays.

—:—

GUSTAVE KOERNER, SR., of St. Louis, Mo., died on October 19 at St. Anthony's Hospital, at the age of seventy-nine.

Mr. Koerner was President of the National Refrigeators Company of St. Louis, Mo., for forty years, but he will be best remembered by readers of "ASBESTOS", as President of the Insulating & Materials Company of St. Louis, Mo., which position he held for twenty years, from 1919 to 1939.

The Insulating and Materials Company are contractors and distributors for insulation, asphalt and asbestos-cement roofs, and other materials of that nature. Their present President is Phil Ziegenfuss.

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R. H. HEILMAN--Vice-Chairman of Committee on Thermal Insulating Materials

R. H. Heilman has recently been elected Vice Chairman of Committee C-16 on Thermal Insulating Materials of the American Society for Testing Materials.

Mr. Heilman has devoted practically all his time for the past twenty years to problems relating to the conservation of energy, which naturally include the development of heat insulating materials and of technical information pertaining to heat flow. He is connected with the Mellon Institute of Industrial Research, University of Pittsburgh, Pittsburgh, Pa., on The Philip Carey Company Industrial Fellowship on Heat Insulation. Approximately thirty papers have been prepared by Mr. Heilman thru the years on subjects dealing with heat insulation and heat transfer in general.

KEASBEY & MATTISON COMPANY -- New Research Department

All research facilities for the many different products of the Keasbey & Mattison Company, Ambler, Pa., have been combined in a new, enlarged, central Research Department. New research equipment and personnel have been added.

This new laboratory will be under the direction of Clyde R. Hutchcroft, with William R. Morris, 32 year K&M veteran, as general consultant.

The tremendous importance of research in the development of new products and the improvement of old ones made this centralization of research activity necessary.

H. E. MANVILLE, Jr.--Elected Director of Johns-Manville

At a meeting held on October 21, 1940, H. E. Manville, Jr., only son of H. Edward Manville, who served the company for fifty years, was elected a member of the Board of Directors of Johns-Manville.

Mr. Manville was employed as an inspector in the shingle department at Waukegan in 1935, later a foreman in the asbestos shingle departments at Waukegan and Asbestos and a building superintendent of the same department at Manville. In 1939 he was transferred to New York as assistant to A. R. Fisher, vice president in charge of production. Recently he joined the Monocoupe Aeroplane & Engine Corporation of Orlando, Fla., as vice president, treasurer and director.

B. L. M. A. ELECTS NEW OFFICERS

At the annual meeting of the Brake Lining Manufacturers' Association on October 15th, the following were elected as the officers for the coming year:

R. B. Davis
President, B. L. M. A.

President, R. B. Davis, Raybestos Division of Raybestos-Manhattan, Inc.; First Vice President, T. L. Gatke, Gatke Corporation; Second Vice President, P. B. Hoffman, American Brakeblok Division, The American Brake Shoe & Foundry Co.; Treasurer, J. S. Crawford, Johns-Manville Corporation; Secretary, General Manager & Assistant Treasurer, C. A. Ekwall.

The Executive Committee consists of the above mentioned officers *and* W. E. Harvey of Thermoid Company, G. M. Williams of Russell Manufacturing Company, M. M. Monroe of the Inland Mfg. Division of General Motors Corporation, J. W. Crawford of the Firestone Tire & Rubber Company, and F. Marshall of the Marshall-Eclipse Division of the Bendix Aviation Corporation.

THE RUBEROID CO.,--Fifty-fourth Anniversary

October 21, 1940 marked the fifty-fourth anniversary of the establishment, at South Bound Brook, N. J., in 1886, of the first Ruberoid factory, with only two products and 18 employees. The company now employs more than 2500 persons in the manufacture of more than 100 different asphalt and asbestos building products in eleven large plants, located at various points.

As a part of the celebration of this anniversary, the name of each employee with a continuous service record of 25 years or more was inscribed on an honor roll, copies of which were posted in all the offices and plants. Eighty-seven names appeared on this honor roll. The three employees having the longest service records are John Milne of the Company's Erie, Pa., division, 47 years; Fred Geiger, manager of the Lang Mills division at Gloucester City, N. J., 45 years, and John G. Fischer, of the Erie division, 44 years.

Company officers who are "Twenty-Fivers" are Herbert Abraham, President (37 years); L. C. Rugen, Vice President in charge of manufacturing, (35 years), and S. D. Van Vleet, Secretary (29 years).

OPEN HOUSE--at Canadian Johns-Manville Co., Ltd.

On Thursday and Friday, September 26 and 27, open house was held at the properties of the Canadian Johns-Manville Co., Ltd., at Asbestos, Que. The first day the visitors were members of the Canadian Manufacturers' Association, sales representatives and important distributors of the company.

Visitors were taken on a general tour of the company's properties, first inspecting the immense pit where the asbestos is mined, then the extensive mill where the fibre is extracted from the rock, and finally, the large factory where the asbestos is fabricated into a multitude of products. Guides explained the various processes.

The idea had been conceived by R. S. Gardner, manager of the Manufacturing Division of the Company, and also chairman of the Sherbrooke Branch of the Canadian Manufacturers' Association.

A dinner was tendered to the visitors in the Company's hotel at Asbestos, on the evening of September 26th, at which E. C. Brockett, Vice President in charge of building materials sales, acted as toastmaster, and speeches of welcome were delivered by Mr. Gardner, and H. K. Sherry, Vice President.

The second day was devoted to the members of the families of employees, who enjoyed seeing how their bread-winners employed their time while at work.

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UNION ASBESTOS & RUBBER COMPANY of Chicago and Cicero, Ill., has purchased the former Nicholson File Company plant, 6th Avenue & E. 11th St., Paterson, N. J., comprising a group of one and two story brick industrial buildings. We understand the Union A. & R. Co. will begin operations in about four months. The Company manufactures insulation, friction materials, packings and railroad supplies.

INSULATION CONTRACTORS OF NORTHERN CALIFORNIA.

This Association has been recently organized, the membership consisting of the principal heat and cold insulation contractors doing business in Northern California. The organization is for the sole purpose of collective bargaining with the various locals of the International Association of Heat and Frost Insulators and Asbestos Workers, located in Northern California, together with activities looking toward better employer-employee labor relations.

The officers of the organization are R. H. Chase of the Plant Rubber & Asbestos Works, President; C. J. Clark of Mundet Cork Corporation. Vice President, N. Micheli of Van Arsdale Harris Co. Inc., Secretary-Treasurer.

N. F. WOOD - Old Asbestos Man Dies in 68th Year

Many of our readers will remember N. F. Wood, one time New York Manager and Vice President of the Keasbey & Mattison Company.

Mr. Wood entered the Asbestos business in the fall of 1902, occupying a position in the contract department of the Keasbey & Mattison Company. He was connected with that Company for 16 years, serving as Assistant Manager of the New York Branch, was made Manager of that Branch in 1914, and elected a Vice President of the Company in 1916.

In 1918 his ill health made it necessary for him to resign and for that same reason he was out of the Asbestos Industry for 14 years, devoting most of that time to outdoor pursuits.

In 1932 he joined the National Asbestos Company of Jersey City, and when that concern was purchased by the U. S. Gypsum Company in 1935 continued with the latter named company, with which he was connected at the time of his death.

He passed away at his home, 75 Gordonhurst Ave., Upper Montclair, N. J., on October 31st.

Mr. Wood was loved and respected by all who knew him, and his death will be greatly regretted not only by his immediate associates in the U. S. Gypsum Company but by many old friends in the Asbestos Industry.

—:—

FRED G. LIPPERT, general safety engineer for Johns-Manville, has been drafted by the U. S. Department of Labor to administer a government health and safety program designed to conserve man power in New York State defense industries. He will function as New York state chairman of a national committee which has been formed to help prevent accidents to employees which might be caused by the increased production pressure of the defense program. All members of the committee and its local representatives will contribute a portion of their time to this work, and in return will receive a salary of one dollar per year each. Companies employing members of the committee have patriotically contributed the time required for this government defense work.

LEWIS H. BROWN, President of Johns-Manville, is serving again this year as general chairman of the annual Red Cross roll call in New York City, which started on November 11.

ASBESTOS CORPORATION LIMITED of Thetford Mines, Que., has temporarily suspended operations at the British Canadian

Mine at Black Lake, this action having been made necessary by the fact that the large market for the product of this mine which had been developed in Continental Europe is now closed.

The other active mines of the Company, namely, King Mine, Beaver Mine and Vimy Ridge Mine, are still operating at capacity.

VALUATION OF ASBESTOS ORE is the title of an interesting article in the September 21, 1940, issue of South African Mining & Engineering Journal. W. E. Sinclair, A. I. M. M. is the author

PACIFIC COAST ASBESTOS ASSOCIATION held its annual meeting on November 7th and 8th, at the Sir Francis Drake Hotel, San Francisco, California. This was the 12th annual meeting. The meeting was well attended; details of the proceedings will be given in December "ASBESTOS".

F. L. CURTIS, Treasurer of Raybestos-Manhattan, Inc., and General Manager of The Manhattan Rubber Mfg. Division, Passaic, N. J., was elected a Director of the Rubber Manufacturers' Association at the annual meeting of that association, held on October 17 in New York.

JOHNS-MANVILLE and subsidiaries show for the third quarter of 1940 (ending September 30) a net profit of $1,645,567.14; net profit for the same period in 1939 was $1,472,255.07.

Sales for the third quarter were $16,408,849.11, compared with $14,474,595.54 in the third quarter of 1939.

	THIRD QUARTER ENDED	
	Sept. 30, 1940	Sept. 30, 1939
Sales Billed	$16,743,908.34	$14,807,131.82
Allowances, Cash Discounts, etc.	335,059.23	332,536.28
Leaving Net Sales of	16,408,849.11	14,474,595.54
Income from rents, interest, div., etc.	93,447.41	42,298.98
	16,502,296.52	14,516,894.52
Mfg. costs, materials, fuel, supplies, etc.	7,465,061.01	7,030,026.14
Depreciation and depletion	493,854.88	607,868.13
Taxes	1,409,688.49	597,969.03
Wages and Salaries	5,488,125.00	4,808,776.15
Leaving Net Earnings of	1,645,567.14	1,472,255.07

Net earnings, after payment of Dividends on 67,500 shares of preferred stock (75,000 shares prior to April 1, 1940) were equal in the second quarter of 1940 to $1.80 per share; in the same period in 1939 to $1.58 per share.

For the nine months period ending September 30, 1940 net sales were $43,261,424.33 compared with $38,239,499.94 for the same period last year.

Net earnings for the nine months period ending September 30, 1940 were $3,530,543.57 compared with net earnings of $2,675,999.43 for the first nine months of 1939; equal after required preferred dividends of $3.72 in 1940 and $2.69 in 1939.

ALLTEX PRODUCTS CORPORATION, 79 Madison Ave., New York City has recently issued a Products Catalog covering their various kinds of brake blocks and lining, clutch facings, etc. This is published in loose-leaf form, for insertion in binder, and also includes Reference and Instruction Book on brake block sets.

J. L. WOOD, general credit manager for Johns-Manville, recently addressed the Sales Executives Club of New York on J-M's conception of the functions of the credit department as a supplement to the sales department. As a result of the reception accorded his talk, Mr. Wood was elected to membership in the Club.

The popular J-M credit manager also spoke to the Tri-State Credit Conference on "Collections as an Aid to Sales"; and discussed "Special Problems Faced by the Office Manager in National Defense" before the American Management Association's Office Management Conference.

THE RUBEROID CO. reported for the third quarter of 1940 consolidated net profit of $342,583, equal to 86 cents per share on 397,806 shares outstanding, after provision for depreciation and Federal taxes. This compares with net profit of $239,871, equal to 74 cents per share, in the corresponding period last year.

For the first nine months of 1940 net profit amounted to $526,425, equivalent to $1.32 per share, compared with net profit of $501,878, equivalent to $1.26 per share, in the first three quarters of 1939.

Net sales for the third quarter of 1940 aggregated $5,288,523, an increase of 10.7% over net sales of $4,778,221 in the corresponding 1939 quarter.

Net sales for the first nine months of 1940 amounted to $12,956,900, an increase of 7.8% over net sales of $12,017,864 in the first three quarters of last year.

"The volume of Ruberoid sales in the third quarter of this year — 10.7% greater than in the corresponding three months of 1939 and substantially above any like period in the company's 54-year history—was due largely to two causes" said Herbert Abraham, President, in commenting on the third quarter report. "There was a continuance of the upward trend in private building that started earlier in the year, particularly in the low cost private residential field; and in addition, sales were substantially augmented by orders for materials used in connection with the national defense program. Generally speaking, however, the bulk of the company's business continued to be derived from private sources, based on the peacetime requirements of the country".

PATENTS

This information obtained from the Official Patent Gazette, published weekly by the U. S. Patent Office, Washington, D. C.

Process for Treating Mineral Fibrous Substances. No. 2,215,150. Granted on September 17, 1940 to Clemens Hannen, Sinzig on the Rhine, Germany. Application December 16, 1937. Serial No. 180,621. In Germany Dec. 28, 1936.

A process for the treatment of silicious fibres which comprises forming fibres from molten material and while the fibres are still plastic, coating the surface thereof with a dust composed of a finely pulverized material selected from the following group consisting of glass sand, quartz sand, asbestos, quick lime, limestone, fluorspar, chalk and pumice stone to render them more suitable for spinning and weaving.

Decorative Panel and Method of making same. No. 2,215,595. Granted on September 24, 1940, to Arthur B. Saunders, Nashua, N. H., assignor to Johns-Manville Corporation, New York City. Application April 23, 1937. Serial No. 138,525.

The method of preparing a decorative panel comprising applying a base coating containing a vinyl resin, a thinner and pigment to a smooth surface of a base board; baking the coated board to evaporate the thinner and flow the coating smoothly over the face of and adhere the same to the board face, applying a baking coating containing a vinyl resin and pigment to a face of a design forming film containing a vinyl resin, bringing the coating on the film into contact with the base coating, applying heat and pressure to the film to fuse the coating and the film together, applying a finishing coating containing a vinyl resin over the film and baking the panel to fuse the finishing coating and film together.

Vibration Isolator. No. 2,216,814. Granted on October 8, 1940 to Alanson M. Gray, Jr., Elizabeth, N. J., and John S. Parkinson, Somerville, N. J., assignors to Johns-Manville. Application April 7, 1938. Serial No. 200,634. Description upon request.

Temperature Control System. No. 2,216,838. Granted on October 8, 1940 to Benjamin F. Herr and Arthur W. Bassett, Lancaster, Pa., assignors to Armstrong Cork Co., Lancaster, Pa., Application Dec. 30, 1938. Serial No. 248,453. Description upon request.

Friction Material. No. 2,217,001. Granted on October 8, 1940 to Chris. Bockius, Stamford, Conn., and Clyde S. Batchelor, Hasbrouck Heights and Judson A. Cook, Paterson, N. J. Assignors to Raybestos-Manhattan, Inc., Passaic, N. J. Application January 23, 1937. Serial No. 121,931.

A friction material comprising a fibrous base and a hardened, non-metallic binder having an irregular surface, the irregu-

lar surface only of said base being filled with particles of relatively ductile metal, portions of said metal particles being integrally united with one another, and interlocked in the irregularities of the base surface.

Reinforced Asbestos Sliver. No. 2,217,049. Granted on October 8 to John W. Greenleaf, Hamden, Conn. Assignor to Rockbestos Corporation, New Haven, Conn. Application April 13, 1938. Serial No. 201,662.

A continuous non-combustible reinforced asbestos sliver which comprises a glass thread and a surrounding fluffy mass of asbestos fibres slidable thereon, said mass of asbestos fibres being so intertwined and condensed that the fibres cling together with sufficient tenacity to be a self-adhering structure permitting winding and ordinary handling of the sliver but also sufficiently fluffy that when two or more of the slivers are pressed together contacting fibres thereof intermingle and can be formed into a felted layer.

Friction Facing. No. 2,218,535. Granted on October 22, 1940 to Morton F. Judd, Stratford, Conn., assignor to Raybestos-Manhattan, Passaic, N. J. Application Sept. 20, 1937. Serial No. 164,754.

A convoluted, bonded compressed structure in annular form for use as a clutch facing comprising alternate thin layers of foraminated, heat resisting felted asbestos base sheet material and a compound of hardened, rubber cement binder comprising fillers, the layers being perpendicular to the wearing face of the clutch facing.

Method of Saturating Fibrous Stock. No. 2,218,547. Granted on October 22, 1940 to Izador J. Novak, Trumbull, Conn., assignor to Raybestos-Manhattan, Inc., Bridgeport, Conn. Application March 29, 1937. Serial No. 133,573. Renewed November 27, 1939.

A process of adding a modifying agent in a liquid vehicle to a wet, fibrous web which comprises moving the wet web into contact with a foraminated roll, rotating said roll about a substantial, horizontal axis in a body of said liquid, for immersing said web therein, maintaining the level of liquid in the interior of the roll at a level lower than the level at the exterior of the roll, whereby the wet web is caused to adhere to the surface of the roll solely by the differential in pressures of the liquid levels as it passes thru the body of the liquid, compressing the treated web against the roll after immersion and stripping the web from the roll.

Packing. No. 2,218,638. Granted on October 22, 1940 to George Christenson, Plainfield, N. J. Assignor to Johns-Manville. Application July 21, 1938. Serial No. 220,424.

A cup packing for assembly with a reciprocable piston, including packing retaining means, said cup packing comprising a base and a peripheral, upstanding lip, said base comprising an annular section, including fabric material carrying a soluble

impregnant and an annular section formed of a yieldable plastic material, said last-named section including perforations for the reception of said retaining means.

Friction Element. No. 2,218,680. Granted on October 22, 1940 to Arthur B. Kempel, East Brady, Pa. Assignor to Rex-Hide, Inc., E. Brady, Pa. Application July 7, 1939. Serial No. 283,236.

A friction element comprising a metallic foundation member, a facing layer of friction material secured thereto by mechanical fasteners, and an interposed cementing anchoring layer of water soluble, siliceous and earthy filler material which is hardenable by the friction heat of braking.

Flexible Siding Material. No. 2,218,791. Granted on October 22, 1940, to Louis Herscovitz, Park Ridge, Ill. Assignor to the Ruberoid Co., New York City. Application June 17, 1939. Serial No. 279,615. Description upon request.

Asbestos Fiberizer. No. 2,219,077. Granted on October 22, 1940 to Lee C. Pharo, Thetford Mines, P. Q. Assignor to Johnson's Company, Thetford Mines, P. Q. Application December 1, 1939. Serial No. 307,153.

An asbestos fiberizing apparatus comprising a plurality of pairs of rolls aligned to act successively on the asbestos during its passage thru the apparatus, the companion rolls of one pair presenting large, interfitting, longitudinally extending ribs and grooves while the companion rolls of another pair present large interfitting circumferentially extending ribs and grooves, the rolls of certain of the r emaining pairs presenting relatively small interfitting, longitudinally extending ribs and grooves while the remaining pairs of rolls present relatively small interfitting circumferentially extending ribs and grooves.

Panel Assembly Unit. No. 2,219,714. Granted on October 29, 1940 to Charles F. Sperry, Norfolk, Va., assignor to Philip Carey Manufacturing Company. Application January 12, 1938. Serial No. 184,649.

A panel fastening unit adapted to be mounted on a foundation member, comprising a base member having ledge portions for seating the edges of a panel and means for spacing apart adjacent panels and providing yieldable walls of a socket, a clip to hold the edges of the panel on the ledge portions, of the base member, a finishing strip covering the space between the panels and a clip attached to the finishing strip, adapted to snap into the socket of the base member.

Activated Magnesia. No. 2,219,726. Granted on October 29, 1940, to Max Y. Seaton, Greenwich, Conn., Assignor to Westvaco Chlorine Products Corporation, New York City. Application January 6, 1940. Serial No. 312,779.

A new article of manufacture, a decomposition product resulting from the heating of magnesium hydroxide at a temperature of at least 400 deg. C. for a limited time, the product having an iodin absorption number in excess of 60.

Africa (Swaziland)

Monthly figures of asbestos production in Swaziland have been discontinued for the duration of the war.

Africa (Union of South)

(Statistics published by Dept. of Mines and Industries of U. of S. A.)

	June 1939 Tons (2000 lbs.)	June 1940 Tons (2000 lbs.)
Transvaal		
Amosite	1,013	1,542
Blue	339	244
Chrysotile	61	41
Cape		
Blue	524	518
	1,937	2,345

Canada

(Statistics by Bureau of Mines, Province of Quebec)

Production September 1940 ..... 30,440 Tons (2000 lbs.)
Production September 1939 ..... 38,124 Tons (2000 lbs.)

For the nine months ending September 30, production, divided into three classifications, was as follows:

	Nine months ending Sept. 30, 1939 Tons (2000 lbs.)	Sept. 30, 1940 Tons (2000 lbs.)
Crude	2,158	1,581
Fibres	130,086	136,157
Shorts	114,645	111,481
	246,889	249,219

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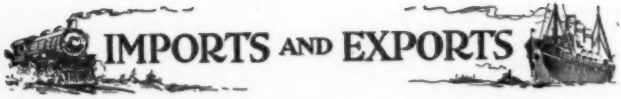
THE TWELVE TABLES FOR ESTIMATING Pipe Covering, Fittings, Flanges and other areas cost $1.00 for the set.

They will reach you flat, in a colorful holder in which they can be kept, or you can transfer them to a binder if you prefer. Send orders to "ASBESTOS", 16th Floor, Inquirer Bldg., Philadelphia. Estimators find them helpful.



Imports into U. S. A.
(Published by U. S. Dept. of Commerce)

	August 1939 Tons (2240 lbs.)	August 1940 Tons (2240 lbs.)
Unmanufactured Asbestos Goods:		
Africa (Br. S.)	650	1,928
British India	.....	1
Canada	15,990	16,811
Cyprus	1,273	.....
United Kingdom	.....	16
U. S. S. R. (Russia)	56	.....
	17,969	18,756
Value	*$223,081*	*$913,988*

Tabulation of Crudes and Fibres:		
Crude (Br. S. Africa)	650	1,928
Crude (Br. India)	.....	1
Crude (Canada)	94	39
Crude (United Kingdom)	.....	16
Milled Fibre (Canada)	4,977	6,542
Milled Fibre (U. S. S. R.)	56	.....
Lower Grades (Canada)	10,919	10,230
Lower Grades (Cyprus)	1,273	.....
	17,969	18,756

Manufactured Asbestos Goods:	August 1939 Pounds	August 1940 Pounds
Belgium (Shingles)	107,042	.....
United Kingdom (Yarn)	2,618	2,496
United Kingdom (Packing)	4,377	174
Uinted Kingdom (W. Fabric)	2,558	.....
	116,595	2,670
Value	*$ 5,187*	*$ 205*

Exports from U. S. A.

Exports of unmanufactured Asbestos during the month of August 1940 amounted to 328 tons, valued at $30,509; compared with 95 tons, valued at $9,370 in August 1939.

Exports of Manufactured Asbestos Goods:

	August 1939		August 1940	
	Quantity	Value	Quantity	Value
Paper, Mlbd. & Rlbd. ....lbs.	178,402	$11,408	195,356	$11,562
Pipe Covg. & Cement ....lbs.	292,009	16,820	381,172	21,639
Textiles & Yarn .....lbs.	37,209	10,176	48,610	18,249
Packing .....lbs.	67,937	50,179	148,683	79,158
Brake Lining—				
Molded & Semi-molded		47,316	.....	53,747
Not Molded .....lin. ft.	62,521	14,453	50,416	12,985
Clutch Facings—				
Molded & S-molded units	10,489	3,865	19,095	8,660
Woven .....units	10,981	3,362	21,125	8,009
Magnesia & Mfrs. of ....lbs.	199,565	18,400	228,712	22,785
Asbestos Roofing .....sqs.	6,149	19,205	5,365	25,424
Other Manufactures lbs.	385,440	40,057	473,676	44,126

Exports of Raw Asbestos from Canada

(Figures by Dominion Bureau of Statistics)

	July 1939		July 1940	
	Tons (2000 lbs.)	Value	Tons (2000 lbs.)	Value
Crude & Milled Fibres	14,450	$ 940,194	16,223	$1,106,084
Sand and Waste	12,997	239,979	13,112	271,299
	27,447	$1,180,173	29,335	$1,377,383
Manufactured Asbestos		$ 37,768	.....	$ 7,133

	Aug. 1939		Aug. 1940	
	Tons (2000 lbs.)	Value	Tons (2000 lbs.)	Value
Crude & Milled Fibres	14,125	$ 905,799	17,599	$1,196,420
Sand and Waste	15,608	274,391	13,726	289.386
	29,733	$1,180,190	31,325	$1,485,806
Manufactured Asbestos		$ 70,184	.....	$ 2,827

Note: Details as to Countries to which exports were sent, have been discontinued for the duration of the war.

CURRENT RANGE OF PRICE

Canadian

	Per Ton (2000 lbs.) f.o.b. Mine (In U.S. Funds)
Group No. 1 (Crude No. 1)	$700.00 to $750.00
Group No. 2 (Crude No. 2; Crude Run-of-Mine and Sundry)	150.00 to 350.00
Group No. 3 (Spinning or Textile Fibre)	110.00 to 200.00
Group No. 4 (Shingle Fibre)	57.00 to 85.50
Group No. 5 (Paper Fibre)	40.00 to 49.50
Group No. 6 (Waste, Stucco or Plaster)	30.00 to 32.00
Group No. 7 (Refuse or Shorts)	13.00 to 28.00

Vermont—	Per Ton (2000 lbs.) f. o. b. Hyde Park, Vt.
"Shingle" Fibre	$57.00 to $60.00
Paper Stock Fibres	40.00 to 48.00
Waste	30.00
Shorts	13.00 to 26.00
Floats	18.00

Note: Crude Run-of-Mine (Canadian) refers to a crude asbestos produced in certain mines where Crude Fibre is not graded into regular No. 1 and 2 Crude. Crude Sundry refers to certain odd lots of off grade material which do not conform to the regular standards of No. 1 Crude or No. 2 Crude.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial and Financial Chronicle. No guarantee made as to their correctness.)

		October 1940		
	Par	Low	High	Last
Armstrong Cork Co. (Com.)	np	30¼	36¼	32½
Asbestos Corp. (Com.)	np	15½	18¼	16
Celotex (Com.)	np	7	7⅜	7½
Celotex (Pfd.)	100	55	62⅞	62½
Certainteed (Com.)	1	4¾	5⅜	5
Certainteed (Pfd.)	100	29	33½	31¾
Flintkote (Com.)	np	16⅝	18⅛	17⅝
Johns-Manville (Com.)	np	66½	71½	66⅞
Johns-Manville (Pfd.)	100	125½	128	128
Raybestos-Manhattan (Com.)	np	18½	19½	19¼
Ruberoid (Com.)	np	15½	18	17½
Thermoid (Com.)	1	4	4¾	4¾
Thermoid (Pfd.)	10	29½	33¼	33¼
U. S. Gypsum (Com.)	20	75	81	75⅜
U. S. Gypsum (Pfd.)	100	175	182	178

THIS and THAT

Ad of the month — The Ruberoid Co. advertisement, on page 21, seems to us to be rather clever. Take another look at it and see if you agree with us.

—:—

At the annual meeting of the American Society of Mechanical Engineers to be held at the Hotel Astor, New York City, during the week of December 2nd, one of the subjects scheduled for discussion is the design and application of phenolic resin asbestos compositions in corrosion-resistant equipment.

—:—

The 1940 edition of the U. S. Minerals Yearbook (a review of 1939) can now be ordered from the Superintendent of Documents, Government Printing Office, Washington, D. C. It has been compiled by the U. S. Bureau of Mines as usual. The price is $2.00 in the United States, Canada and Mexico; $2.50 in other countries.

—:—

The American Society of Chemical Engineers will hold its annual meeting in New Orleans, La., December 2 to 4. The American Society of Refrigerating Engineers at the Hotel Commodore, New York City, December 4 to 6.

—:—

Retail sales of gasoline in Canada during the first half of 1940 amounted to 365,437,000 gallons.

—:—

Roofing slate sold in the U. S. A. in 1939 amounted to 399,320 squares valued at $2,868,961.

—:—

A new, useful Drive Data Book for Condor Whipcord Endless Belts has been published by The Manhattan Rubber Mfg. Division, Passaic, N.J., and is available on request.

The same company has also recently published an attractive bulletin describing the new V. D. B. (Vibration Dampener Bushing) resilient mounting now being built into Manhattan wheels for portable grinders.

The 1940 wheat crop in Canada will be the second largest in the annals of Canadian wheat production, according to preliminary estimates,—561,104,000 bushels.

—:—

Form 3526.—Ed. 1933

STATEMENT OF THE OWNERSHIP, MANAGEMENT, CIRCULATION, ETC., REQUIRED BY THE ACTS OF CONGRESS OF AUGUST 24, 1912, AND MARCH 3, 1933

Of "ASBESTOS" (Insert title of publication.) published monthly (State frequency of issue.)

at Philadelphia, Pa. for October 1940. .
(Name of post office and State where publication is entered.)

State of Pennsylvania }
County of Philadelphia } ss.

Before me, a Notary Public in and for the State and county aforesaid, personally appeared A. S. Rossiter, who, having been duly sworn according to law, deposes and says that he is the Editor of the Magazine "ASBESTOS"
(State whether editor, publisher, business manager, or owner.) (Insert title of publication.)
and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management (and if a daily paper, the circulation), etc., of the aforesaid publication for the date shown in the above caption, required by the Act of August 24, 1912, as amended by the Act of March 3, 1933, embodied in section 537, Postal Laws and Regulations, printed on the reverse of this form, to wit:

1. That the names and addresses of the publisher, editor, managing editor, and business managers are:

Name of—	*Post office address—*
Publisher Secretarial Service	16th Floor, Inquirer Bldg.,
Editor A. S. Rossiter	Blue Bell, Pa.
Managing Editor A. S. Rossiter	Blue Bell, Pa.
Business Manager A. S. Rossiter	Blue Bell, Pa.

2. That the owner is: (If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding one per cent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a firm, company, or other unincorporated concern, its name and address, as well as those of each individual member, must be given.)

C. J. Stover	130 Summit Ave., Jenkintown, Pa.

3. That the known bondholders, mortgagees, and other security holders owning or holding 1 per cent or more of total amount of bonds, mortgages, or other securities are: (If there are none, so state.)

None

4. That the two paragraphs next above, giving the names of the owners, stockholders, and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner; and this affiant has no reason to believe that any other person, association, or corporation has any interest direct or indirect in the said stock, bonds, or other securities than as so stated by him.

5. That the average number of copies of each issue of this publication sold or distributed, through the mails or otherwise, to paid subscribers during the twelve months preceding the date shown above is
(This information is required from daily publications only.)

A. S. Rossiter
(Signature of editor, publisher, business manager, or owner.)

Sworn to and subscribed before me this 1st day of October 1940

[SEAL] Wm. H. Lute

(My commission expires at the end of the next session of the Senate.)

NOTE.—This statement must be made in duplicate and both copies delivered by the publisher to the postmaster, who shall send one copy to the Third Assistant Postmaster General (Division of Classification), Washington, D. C., and retain the other in the files of the post office. The publisher must publish a copy of this statement in the second issue printed next after its filing.

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A packing manual which includes sections devoted to descriptions, recommendations and engineering data has been prepared by the Ehret Company to assist users of packings in selecting the proper type for a particular service. A copy of this effective sales aid will be sent to you on request.

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In word, wisdom;

In deed, courage;

In life, service.